

ECE Graduate Publication List (July 1, 2009 – June 30, 2010)

Journal Articles: 9

Conference Publications: 28

Journal Articles:

1. **A. Banerjee, Y. Shuai, R. Dixit, D. Klotzkin, I. Papuatsky**, "Concentration Dependence of Fluorescence Signal in a Microfluidic Fluorescence Detector," *Journal of Luminescence*, Vol. 130, pp. 1095-1100.
2. **H. Chen, Y. Chen, and D. Summerville**, "A Survey on the Application of FPGAs for Network Infrastructure Security," *IEEE Communications Surveys and Tutorial*, 2010.
3. **T. Filler** and J. Fridrich, "Gibbs construction in Steganography," *IEEE Trans. on Info. Forensics and Security*, 2010.
4. **U.C. Hasar, C.R. Westgate, and M. Ertugrul**, "Permittivity Determination of Liquid Materials Using Waveguide Measurements for Industrial Applications," *IET Microwaves, Antennas, and Propagation*, pp. 1- 12, 2009.
5. **J. Kodovský** and J. Fridrich, "Quantitative Structural Steganalysis of Jsteg," *IEEE Trans. on Info. Forensics and Security*, 2010.
6. N.E. Wu, **M. Ruschmann**, and **J. Huang**, "Probing the NASA Generic Transport Aircraft in Real-Time for Health Monitoring," *IEEE Trans. Control Systems Technology*.
7. N.E. Wu, and **M. Ruschmann**, "Fault-Tolerant Control of a Hidden Markov Process with Application to Resource Allocation in an Air Operation," Special Issue on Fault Detection, Diagnosis and Tolerant Control, *Journal of Systems Engineering and Electronics*.
8. **A. Tokhtabayev, V. Skormin, and A. Dolgikh**, "Obfuscation Resilient Behavior Based IDS based on Colored Petri Nets", *Journal of Computer Security*, under review.
9. **Y. Zhou, S. Sridhar, K. Mishra, D. Klotzkin**, "Thermal Compression Wafer Bonding of Tungsten Applied to Fabrication of Small-Period Tungsten Woodpile Structures," *Materials Letters*, Vol. 64, pp. 1222-1225.

Conference Publications:

1. **I. Atakli, Y. Chen, Q. Wu and S.A. Craver**, "BLINK: Pixel-Domain Encryption for Secure Document Management," *the 11th ACM Workshop on Multimedia and Security (MMSEC 2009)*, Princeton, New Jersey, USA, pp 171-175, September 7 - 8, 2009.
2. **H. Chen, D. Summerville, and Y. Chen**, "Two-Stage Decomposition of SNORT Rules towards Efficient Hardware Implementation," *7th International Workshop on*

- Design of Reliable Communication Networks* (DRCN 2009), Washington, D.C., USA, October 25-28, 2009.
3. **J. Feng**, Y. Chen, W.-S. Ku, and Z. Su, "D-DOG: Securing Sensitive Data in Distributed Storage Space by Data Division and Out-of-order Keystream Generation," *2010 IEEE International Conference on Communications - Communication and Information System Security Symposium (ICC'10 CISS)*, Cape Town, South Africa, May 23-27, 2010.
 4. **J. Feng**, Y. Chen, D. Summerville, "EEO: an Efficient MDS-like RAID-6 Code for Parallel Implementation," *33rd IEEE Sarnoff Symposium*, Princeton, NJ, USA, Apr. 12-14, 2010.
 5. **J. Feng**, Y. Chen and P. Liu, "Bridging the Missing Link of Cloud Data Storage Security in AWS," *7th IEEE Consumer Communications and Networking Conference - Security for CE Communications (CCNC'10, Short Position Paper)*, Las Vegas, Nevada, USA, January 9-12, 2010.
 6. **T. Filler** and J. Fridrich, "Fisher Information Determines Capacity of E-secure Steganography," *11th Information Hiding Workshop*, Darmstadt, Germany, LNCS Vol. 5806, Springer-Verlag, pp. 31-47, June 7-10, 2009.
 7. **T. Filler**, J. Judas, and J. Fridrich, "Minimizing Embedding Impact in Steganography Using Trellis-Coded Quantization," *Proc. SPIE, Electronic Imaging, Media Forensics and Security XII*, San Jose, CA, pp. 05-01-05-14, January 17-21, 2010.
 8. **T. Filler** and J. Fridrich, "Wet ZZW Construction," *Proc. IEEE WIFS'09*, London, UK, December 6-9, 2009.
 9. **T. Filler** and J. Fridrich, "Steganography Using Gibbs Random Fields," *ACM Multimedia & Security Workshop*, Rome, Italy, September 9-10, 2010.
 10. M. Goljan, J. Fridrich, and **T. Filler**, "Managing a Large Database of Camera Fingerprints," *Proc. SPIE, Electronic Imaging, Media Forensics and Security XII*, San Jose, CA, pp. 08-01-08-12, January 17-21, 2010.
 11. **Y. Ge**, P. Malani, and Q. Qiu, "Distributed Task Migration for Thermal Management in Many-Core Systems," *Proc. Of 2010 Design Automation Conference*, June, 2010.
 12. S.A. Zahorian, **H.Hu**, **Z. Chen**, and **J. Wu**, "Spectral and Temporal Modulation Features for Phonetic Recognition," *Proc. Interspeech*, Brighton, UK, pp.1071-1074, 2009.
 13. **H.Hu** and S.A. Zahorian, "Neural Network Based Nonlinear Discriminant Analysis for Speech Recognition," *ANNIE*, St. Louis, MO, pp.539-546, 2009.
 14. **H.Hu** and S.A. Zahorian, "Dimensionality Reduction Methods for HMM Phonetic Recognition," *ICASSP*, Dallas, TX, pp.4854-4857, 2010.
 15. **J. Huang** and N. E. Wu, "Validation of a Small Signal Probing Concept for Prognosis on a Nonlinear Model for Longitudinal Motion of a Boeing-747," *American Control Conference*, St. Louis, Missouri, June 10-12, 2009.
 16. **K. Huang**, and N. E. Wu, "Change Detection for the NASA Generic Transport Aircraft Model," *IFAC Symposium on Safeprocess*, Barcelona, Spain, June 30-July 3, 2009.

17. N. E. Wu, J-Y Shin, and **K. Huang**, "Sensor Maneuver Design for Microwave Source Localization," *American Control Conference*, St. Louis, Missouri, June 10-12, 2009.
18. **L. Huie** and M. L. Fowler, "Emitter Location in the Presence of Information Injection," *Conference on Information Sciences and Systems*, Princeton University, March 2010.
19. **J. Kodovský**, and J. Fridrich, "Calibration Revisited," *Proc. ACM Multimedia and Security Workshop*, Princeton, NJ, pp. 63–74, September 7–8, 2009.
20. **J. Kodovský** and J. Fridrich, "Quantitative Steganalysis of LSB Embedding in JPEG Domain," *ACM Multimedia & Security Workshop*, Rome, Italy, September 9–10, 2010.
21. **J. Kodovský**, T. Pevný, and J. Fridrich, "Modern Steganalysis Can Detect YASS," *Proc. SPIE, Electronic Imaging, Media Forensics and Security XII*, San Jose, CA, pp. 02-01–02-11, January 17–21, 2010.
22. **E. Li** and S.A. Craver, "A Supraliminal Channel in a Wireless Phone Application," *11th ACM Workshop on Multimedia and Security (MMSEC 2009)*, Princeton, New Jersey, USA, pp 151-154, September 7-8, 2009.
23. **R. Ren** and M. L. Fowler, "An LBI Based Emitter Location Estimator with Platform Trajectory Optimality," *43rd Asilomar Conference on Signals, Systems, and Computers*, November 1-4, 2009.
24. **M. C. Ruschmann**, **J. Huang**, and N. E. Wu, "Probing the NASA Generic Transport Aircraft in Real-Time for Health Monitoring," *IEEE Conference on Decision and Control*, Shanghai, China, December 16-18, 2009.
25. **R. Thankalekshmi**, Q. Qiu, and K. L. Man, "Statistical Analysis and Structure Optimization of Large Photovoltaic Module," *Proc. of DATICS-FutureTech*, 2010.
26. **C. Xiong** and X. Li, "Minimum Cost Optimization of Multicast Wireless Networks with Network Coding," *IEEE CISS'2010*, Princeton University, Princeton, NJ, March 2010.
27. **J. Yu** and S.A. Craver, "Reverse-Engineering a Watermark Detector Based on a More Precise Model," *Proc. SPIE*, Vol. 7542, 75420C, doi:10.1117/12.839161, January 27, 2010.
28. S.A. Craver and **J. Yu**, "Media Forensics and Security," *Proceedings of the SPIE*, Vol. 7541, pp. 754103-754103-6, 2010.